

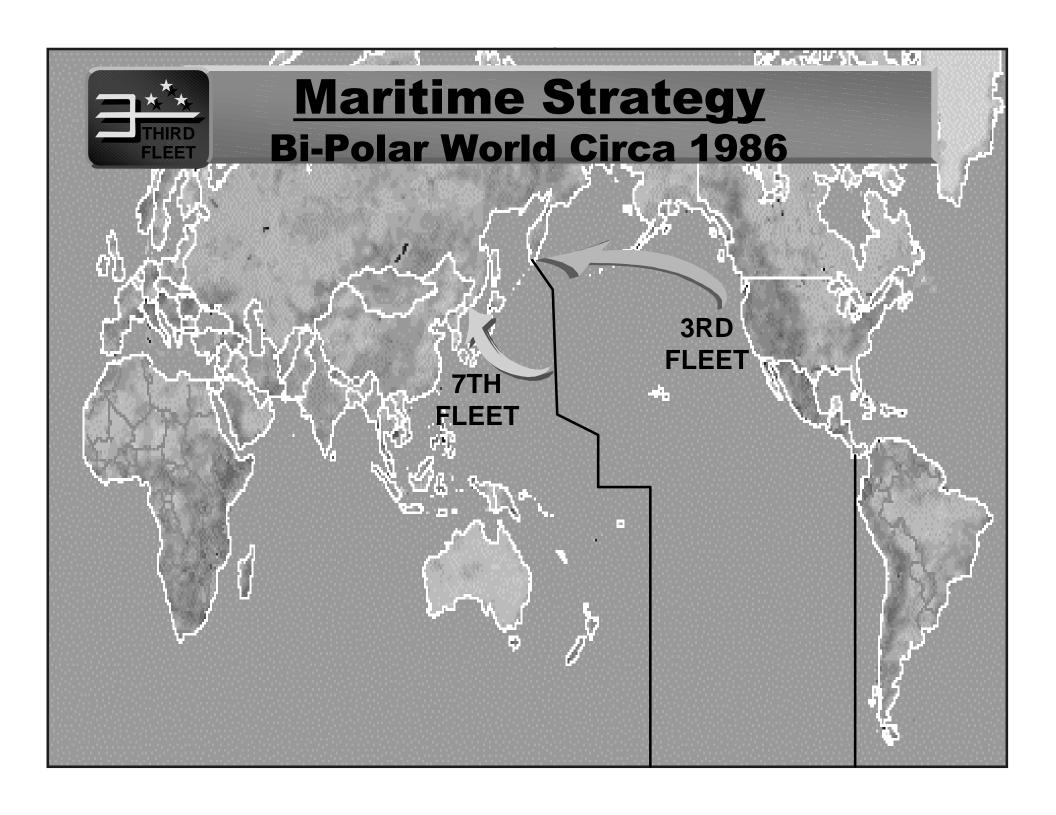
SEA BASED BATTLE LAB... A UNIQUE OPPORTUNITY

COMTHIRDFLT Neil A. Weinstein

Fleet Engineering Dept Technical Deputy
SPAWAR Systems Center San Diego
NSSDF 2 April 1998
weinstei@spawar.navy.mil

619-524-2481

REPORT DOCUMENTATION PAGE					Form Approved OMB No. 0704-0188	
and reviewing this collection of information. Send co Headquarters Services, Directorate for Information C	omments regarding this burden est Operations and Reports (0704-018	timate or any other aspect of this coll 8), 1215 Jefferson Davis Highway, S	lection of information, inc. Suite 1204, Arlington, VA	luding suggestions for reducing 22202-4302. Respondents sho	gathering and maintaining the data needed, and completing g this burder to Department of Defense, Washington buld be aware that notwithstanding any other provision of T RETURN YOUR FORM TO THE ABOVE ADDRESS.	
1. REPORT DATE (DD-MM-Y 02-04-1998	(YYYY) 2. R	REPORT TYPE aference Proceedings	currently valid of the control	3. DATES	COVERED (FROM - TO) 8 to xx-xx-1998	
4. TITLE AND SUBTITLE				5a. CONTRACT	NUMBER	
Sea Based Battle LabA Unique Opportunity				5b. GRANT NUMBER		
Unclassified				5c. PROGRAM	ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT N	UMBER	
Weinstein, Neil A.;				5e. TASK NUMBER		
				5f. WORK UNIT	NUMBER	
7. PERFORMING ORGANIZA SPAWAR Systems Center San San Diego, CAxxxxx			8. PERFORMING NUMBER	G ORGANIZATION REPORT		
9. SPONSORING/MONITORI	NG AGENCY NAM	10. SPONSOR/MONITOR'S ACRONYM(S)				
Director, CECOM RDEC		11. SPONSOR/MONITOR'S REPORT				
Night Vision and Electronic Ser 10221 Burbeck Road	nsors Directorate, Se	ecurity Team		NUMBER(S)		
Ft. Belvoir, VA22060-5806						
12. DISTRIBUTION/AVAILA	BILITY STATEME	NT				
APUBLIC RELEASE						
13. SUPPLEMENTARY NOTE See Also ADM201041, 1998 IR		CD-ROM.				
14. ABSTRACT						
Sea based battle lab						
15. SUBJECT TERMS						
16. SECURITY CLASSIFICA	TION OF:	17. LIMITATION OF ABSTRACT Public Release	OF PAGES	19. NAME OF F Fenster, Lynn Ifenster@dtic.m	RESPONSIBLE PERSON il	
a. REPORT b. ABSTRAC	CT c. THIS PAGE		31	10h TELEDUO	NE NI IMBED	
Unclassified Unclassified	Unclassified			19b. TELEPHONE NUMBER International Area Code Area Code Telephone Number 703767-9007 DSN 427-9007		
					Standard Form 298 (Rev. 8-98)	
					Prescribed by ANSI Std Z39.18	





PACOM Force Distribution

US ARMY ALASKA 11TH AF 3TFS

7TH AF 5TH AF 3 TFS

8TH ARMY 1CVTG

2ND ID 1 ATG

III MEF (16 SHIPS)

3 TFS

PERSONNEL:

U.S. 200,200

FORWARD DEPLOYED /

BASED <u>113,400</u>

TOTAL 313,600

I CORPS

3RD BDE, 2ID 9TH INF REG

I MEF 3RD FLEET 5 CVTG'S 5 ATG'S

(69 SHIPS)

25TH INF DIV (LIGHT)

1 TFS 14 SHIPS

13TH AF MPSRON 3

CTF 73

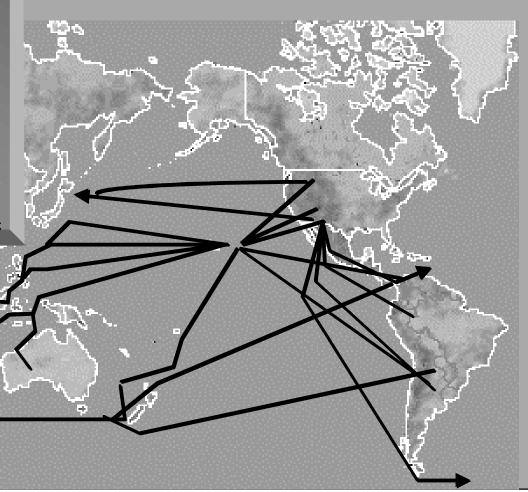


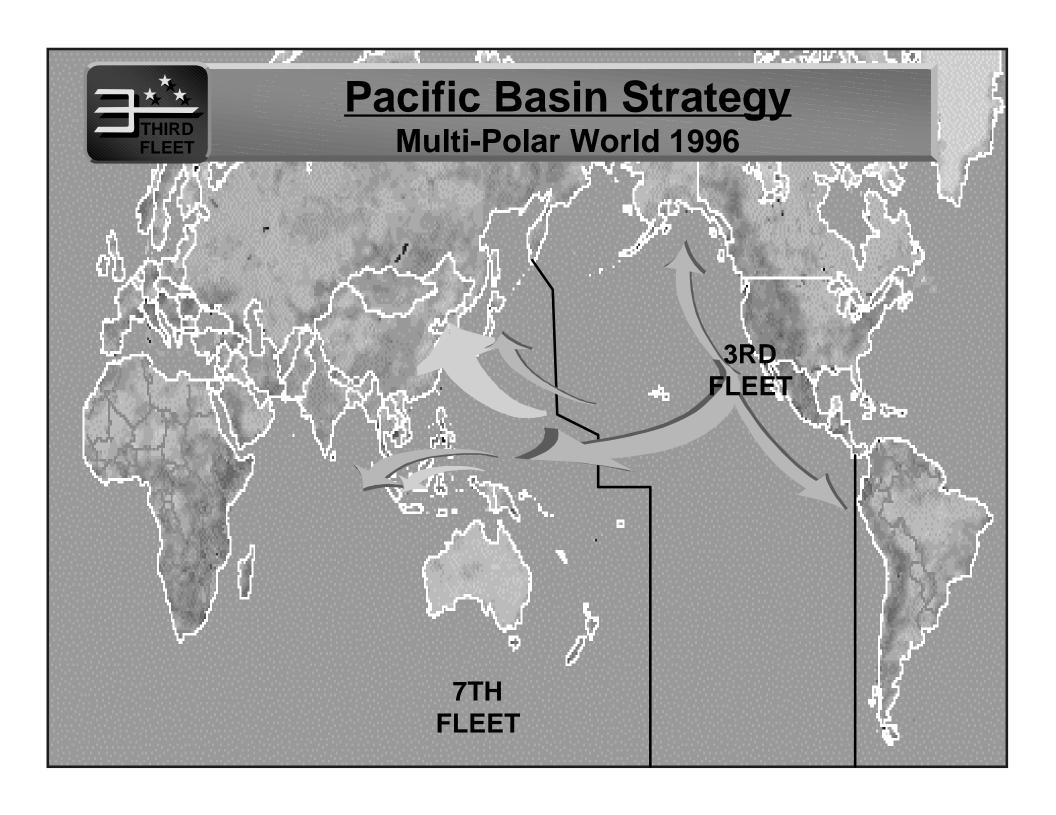
Sea Lines Of Communication

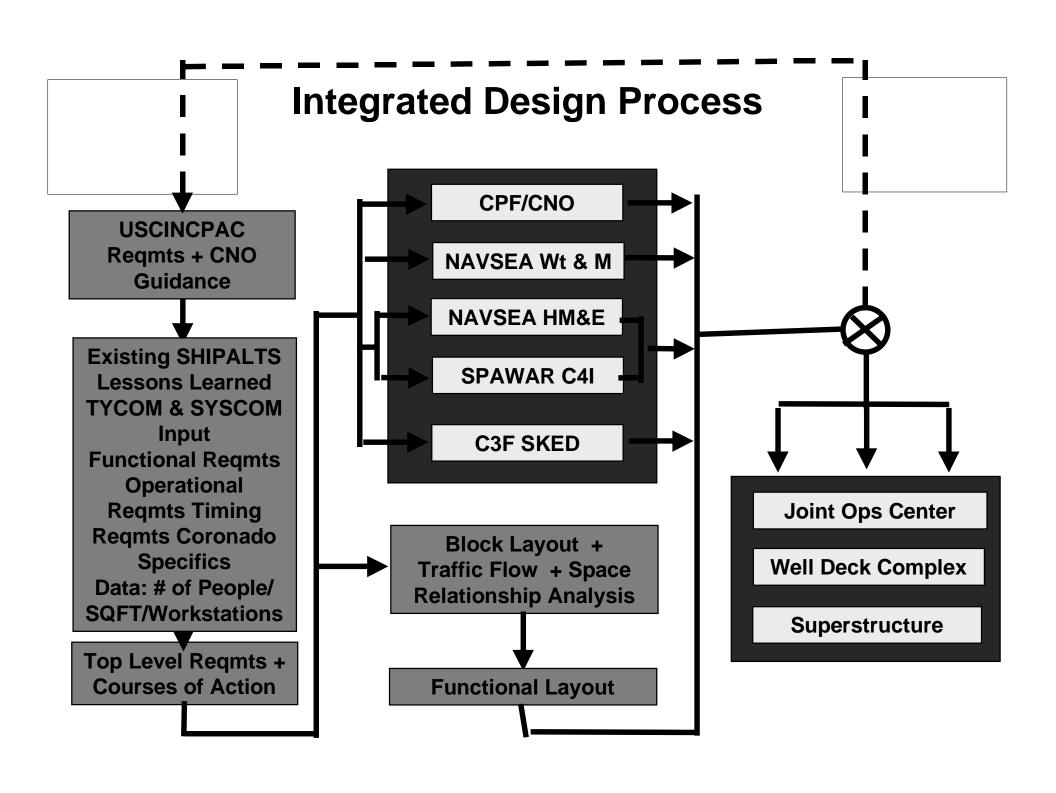
Pacific Basin

Region of dynamic growth, rapidly expanding trade, instant communications

- **★The world's seven largest militaries**
- **★60%** of world's population
- **★U.S. annual trade: \$1.7 Trillion**
- ★Pacific controls 36% of U.S. trade vs 20% controlled by Europe
- **★2.5** million U.S. jobs linked to Pacific

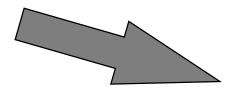




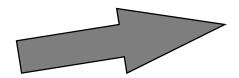


Campaign Center of Gravity

CONSOLIDATE C2
CO-LOCATE FUNCTIONS

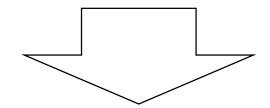


POTENTIAL FOR EXPANSION



QUALITY OF LIFE

FEMALE BERTHING JOINT INTEROPERABILITY



OPERATIONAL SPACES

- * MULTI-FUNCTION
- * OPEN FORMAT
- * INTEGRATED C4I/ADP

SPACE

POWER & COOLING

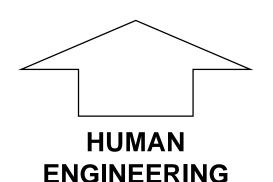
WT & MOMENT

DRAINAGE



BUDGET/POM

HARDWARE AVAILABILITY





DAMAGE CONTROL

TRAFFIC FLOW



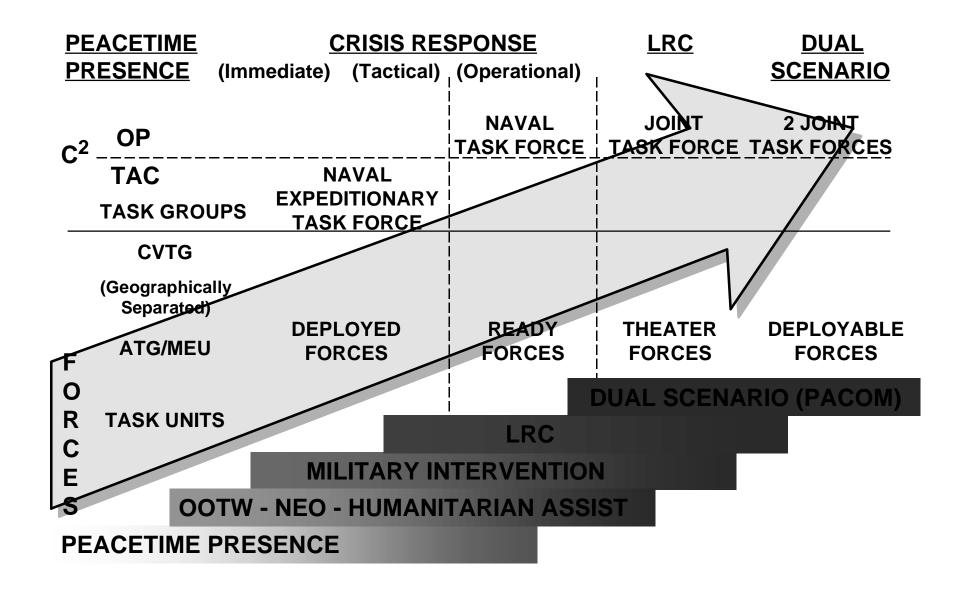
COMMAND & CONTROL

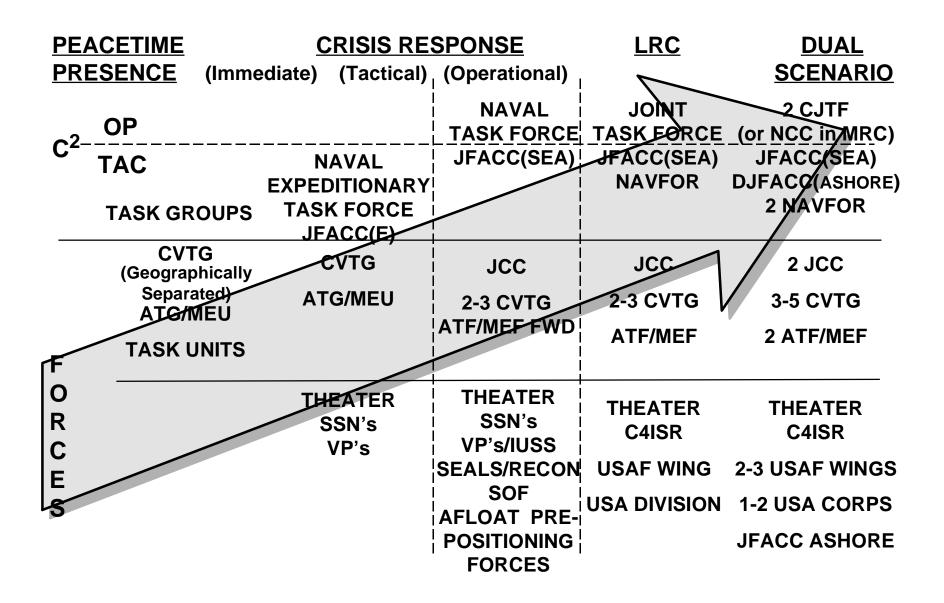
DEPLOYED FORCES

READY FORCES

THEATER FORCES

DEPLOYABLE FORCES





* Sea-Based, Mobile Forces

WILL MOST LIKELY BE THE FIRST ON-STATION

FOR MILITARY RESPONSE OR DISASTER RELIEF.

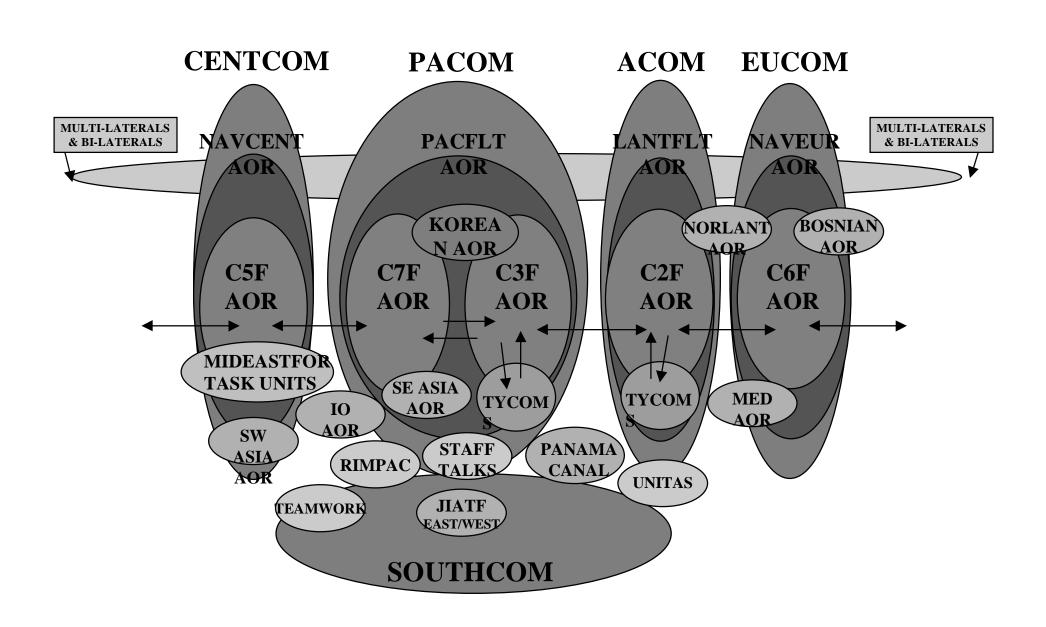
* Naval Command & Control Packages

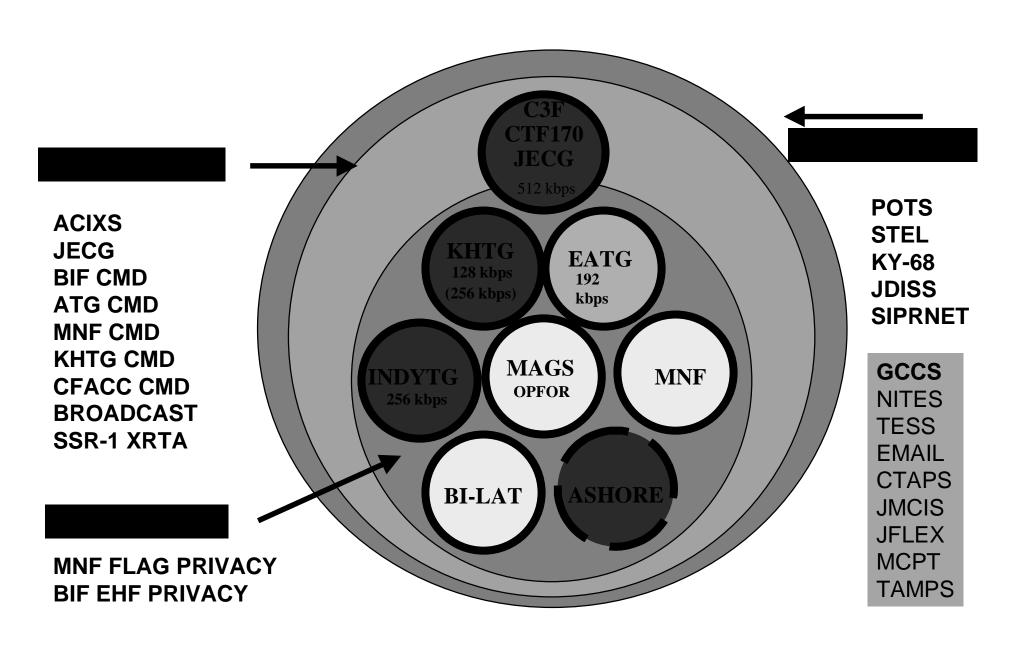
AND FORCE PACKAGES MUST BE OPTIMIZED

TO SUPPORT JOINT TASK FORCE OPERATIONS.

"Seamless Application of Joint Air Power"

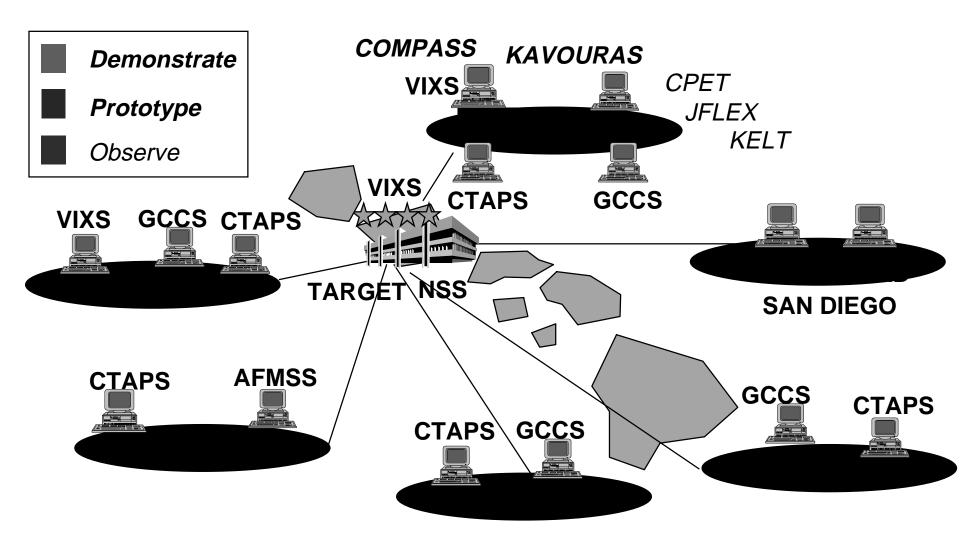
ocanness Application of confit An 1 offer							
	BASED NG JFACC	JCC SEA-BASED JFACC	JFACC ASHORE				
UNAUGMENTED	AUGMENTED						
COMTHIRDFLT	CINCPACELT	COMSECONDELT	USAF AGOS				
BG JTFEX	TANDEM THRUST	STRONG RESOLVE	BLUE FLAG				
• 1 CVBG ARG	• 2 CVBG	• 2-3 CVBG	• 3-5/CVBG				
• 1 USAF CAW	• 1 ARG	• 1-2 ARG/MAW	• 2/ARG/2				
• 180-200	1 USAF WG	• 2 USAF WINGS	AF WINGS				
SORTIES	• 400 PLUS	• 800 PLUS	1400 PLUS				
	SORTIES	SORTIES	SORTIES				
USMC 2ND MAW ROVING SANDS 95							
SEA BASED JFACC CONTINUUM							





Sea-Based Battle Lab Rapid Prototyping

JTF



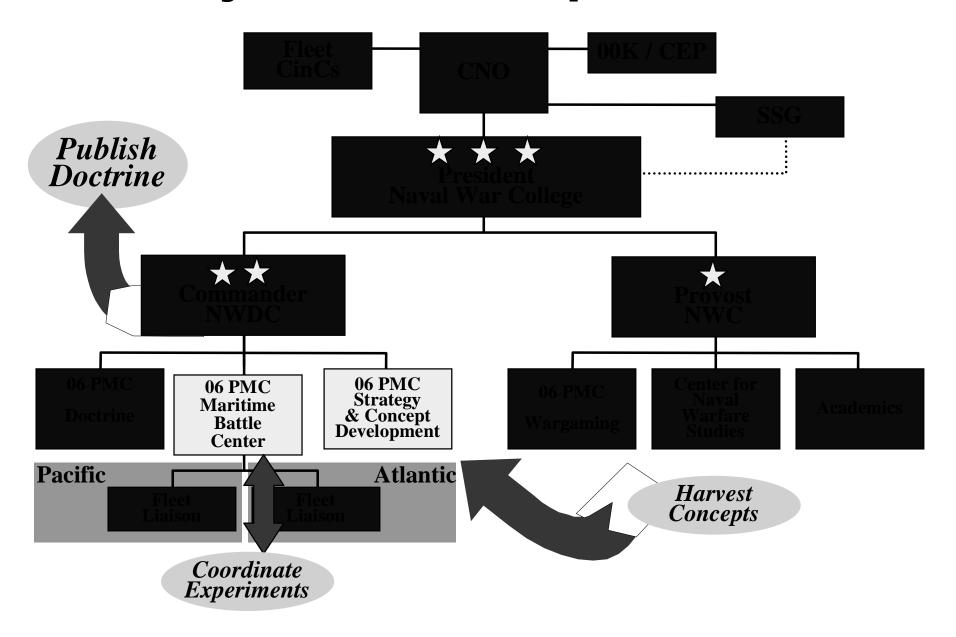
Distributed Collaborative Planning in RIMPAC '96

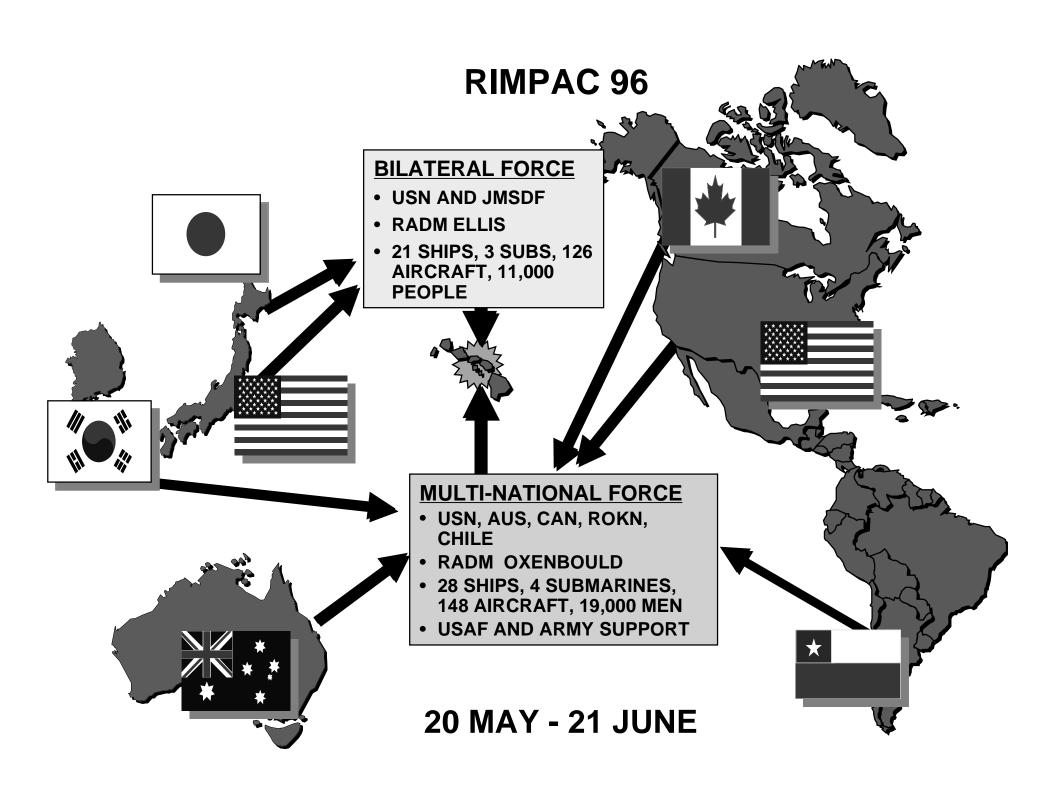
Experimental Fleet Projects

"The military advantage goes to the nation who has the best cycle time to capture technologies that are commercially available, incorporate them in weapon systems, and get them FIELDED FIRST."

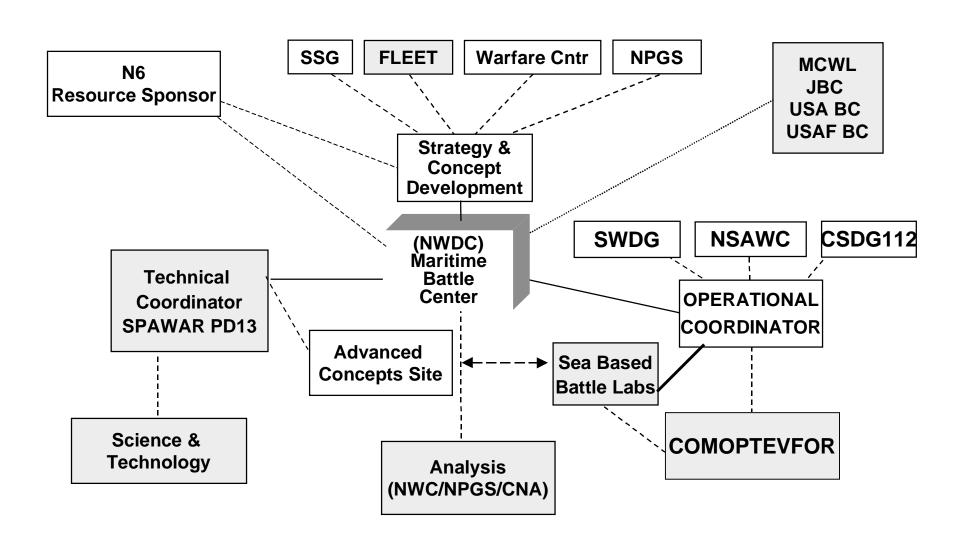
Honorable Paul G. Kaminski

Navy Warfare Development Command

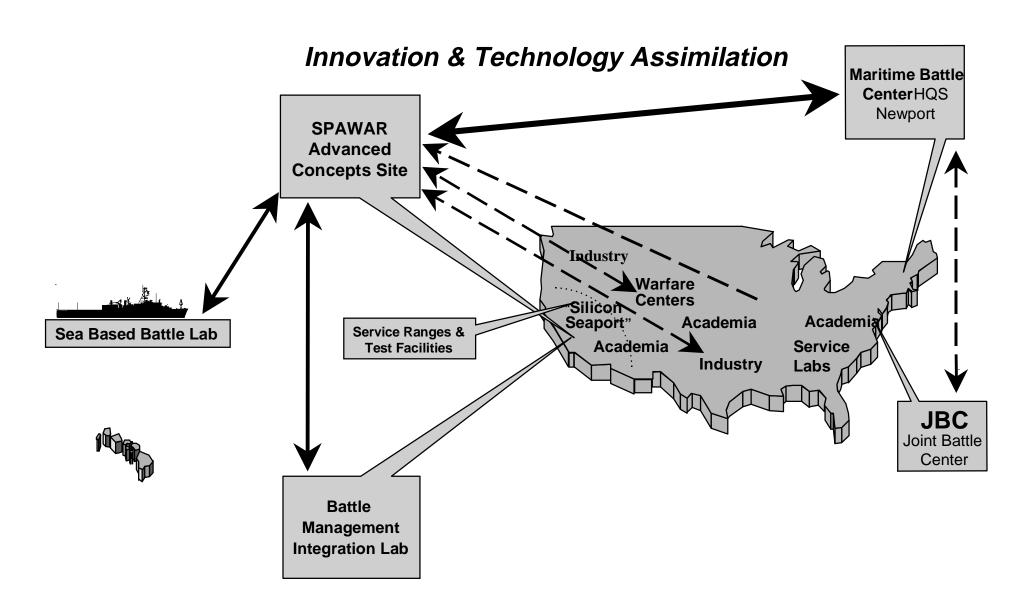




SBBL Notional Relationships



LOCATION: the SBBL can Leverage the capabilities of the Nation's Core Facilities



SBBL CAPABILITIES

- Sea Based Battle Lab: Cooperative effort-NAVSEA, Fleet, SPAWAR
 - 3rd Fleet Command Ship (uss coronado)+Fleet Assets
 - JCC Capabilities; 3 Staffs; Frequently @ Sea; Currently Unique
 - DARPA funded Decision Making Ergonomics
 - SBBL Project Spaces; Accommodations for Technicians
 - Extensive C4I capabilities
 - Core Architecture vs. SBBL Architecture=Temp MODs
 - Training remains C3F primary mission=fleet feedback
 - Director SBBL ADDU as PD 13B=SPAWAR procurement lines
 - We have a vested interest: CJTF & C3F relieves C5F as afloat warfighter
 - Fast track to Fleet
 - Transition, Rework or Trash: Experiment is still a success!
 - Demand for operational experimentation exceeds capacity

COMTHIRDFLT - USS CORONADO - C41

DATA LINKS

LINK 11/JTIDS/ /DWTS/MDU SIPRNET/NIPRNET TADIXS/OTCIXS/BGIXSII/ VIXS ADSI/LAWS/JTAGS/JSTARS/ JTIDS

C2

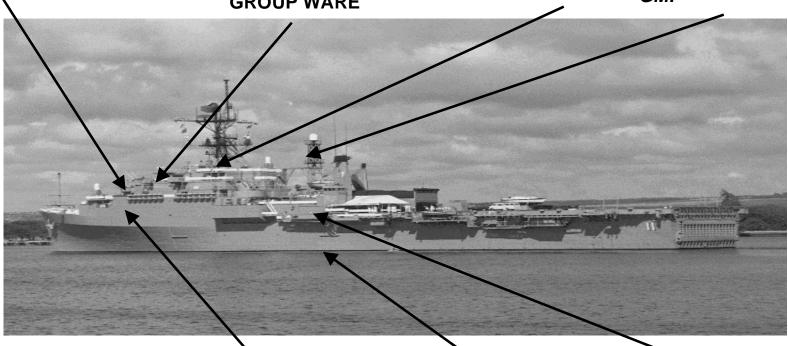
GCCS
JMCIS 3.1/23TV
CTAPS HOST/REM
COMPASS
GROUP WARE

INTEL

JWICS JDISS JATACS CUB

SATCOM

SHF SATCOM CHALLENGE ATHENA UHF SATCOM EHF SATCOM (1)/(2) GMF



completed planned

MISC

SNAP III RADIANT MERCURY MCIXS #2 PBX & CIC

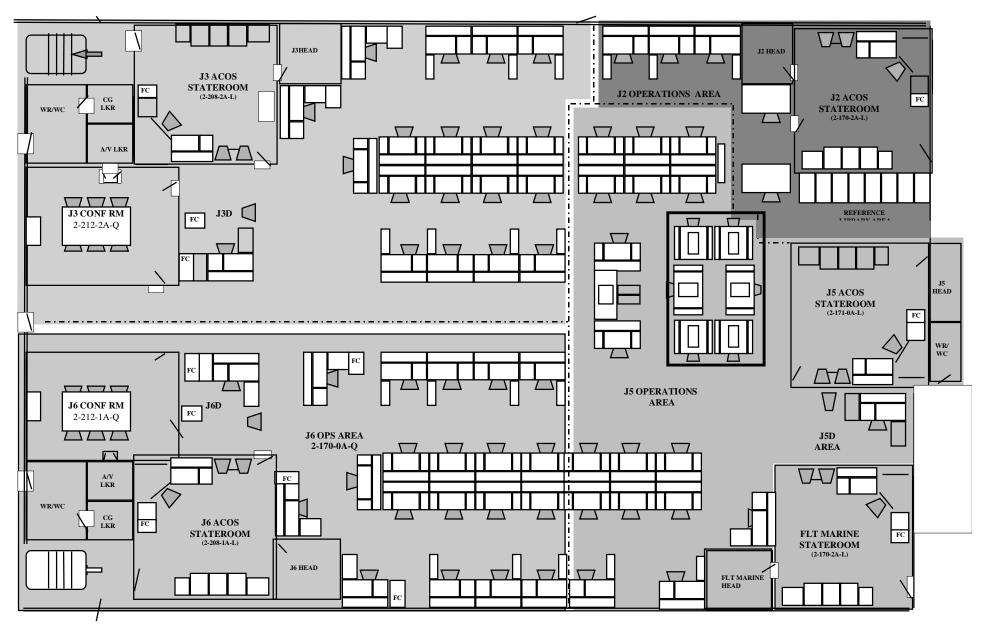
METOC

TESS/NITES SMQ-11

TACTCOM

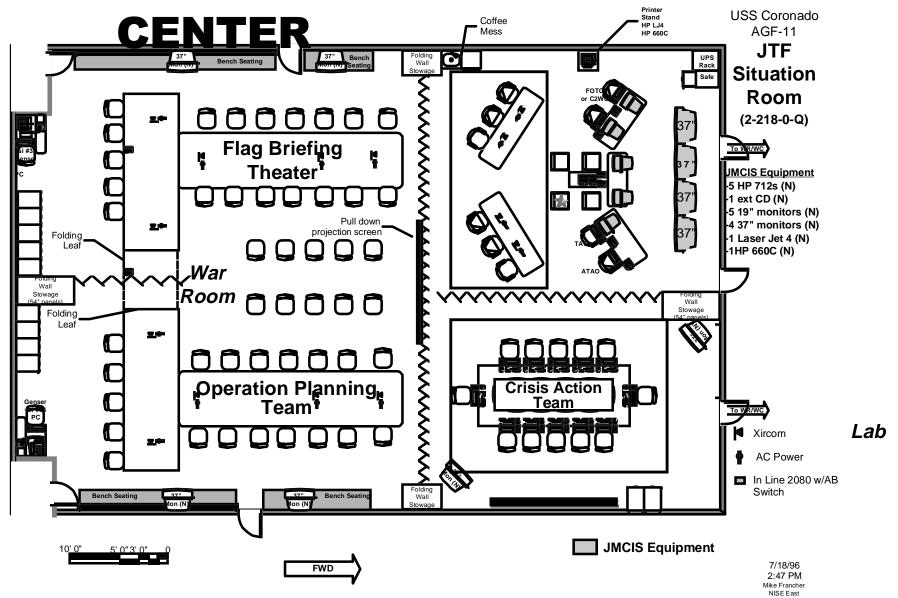
NAVMACS II HFRG SINCGARS SA-2112V(1)(4) ADNS/ATM GBS/JBS/DMS

JOINT PLANNING CENTER



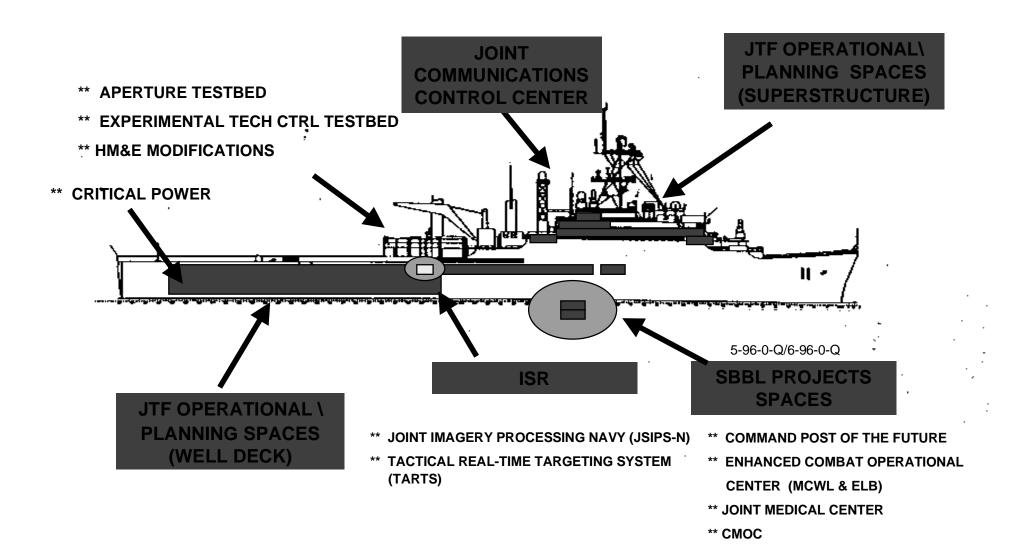
DATA TO INFORMATION

JOINT OPERATIONS



INFORMATION TO DECISIONS: ORDERS OUT

SBBL PROJECT PACES





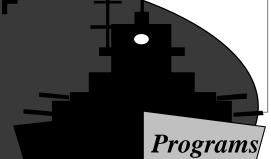
Accelerating Deployment of New Technologies

Battle Force Pacific

Ready Force Pacific

Sea-based JTF
Deployment
"Prime Time"

operational documentation, training, and logistics support



Demonstrate

Sea-based

Acceleration Zone

Prototype

Battle Lab

Maturing Technologies

with beta-level documentation, targeted training, logistics support & exit strategy

Developing Technologies (6.3)

needs warfighter input & Concept of Ops (beta-level technology, alpha-level support)

Observe dustry

Research

Emerging Technologies

needs warfighter interaction (alpha-level technology)

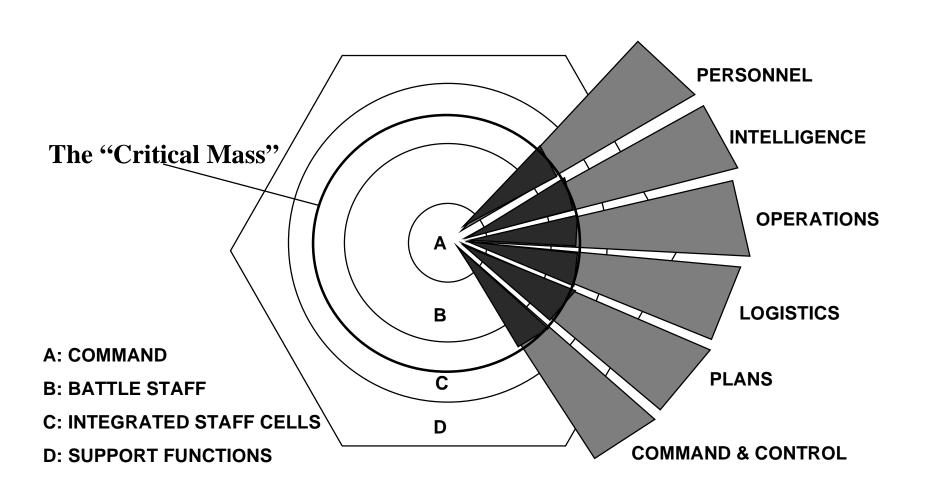
Applied Research (6.2) needs warfighting concept

Basic research (6.1)

U.S. Navy
Sea-based Battle
Lab Initiative

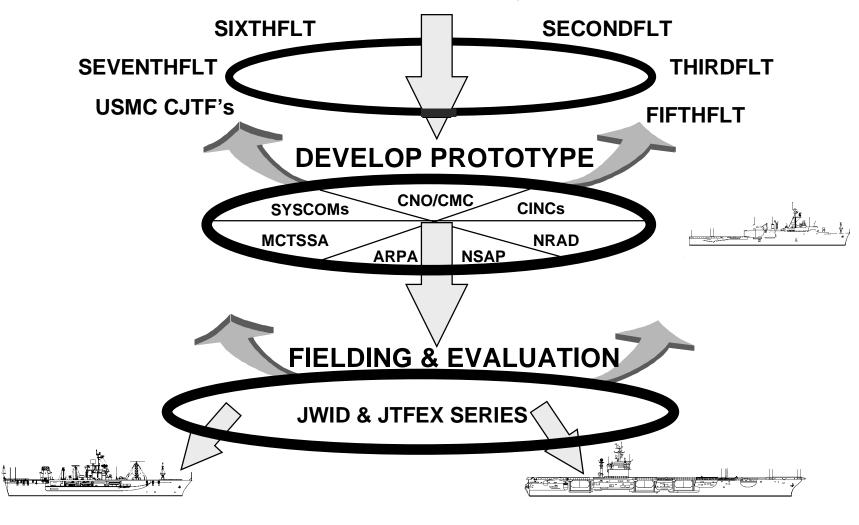
Sea-Based Battle Lab

★ Technology enables innovation in warfighting



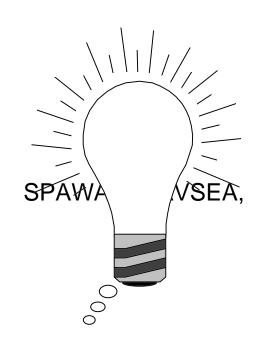
Sea-Based Battle Lab JTF Rapid Prototyping

INNOVATION & REQUIREMENTS



Sea-Based Battle Lab JTF Rapid Prototyping

- Identify good ideas
- Use group staff centers of excellence
- Assign projects
- Maintain configuration control
- Monitor success
- Validate and recommend
- Foster Joint Ventures
 DARPA, NRaD, ONR, ONI, NAVSECGRU
- Integrate results into group training



SBBL-Project Examples

- Submarine Mast Detection System
- Satellite TADIL-J
- Joint Targeting Toolkit
- JFACC After Next
- TARTS/PST/MERS
- ADSI
- COMPASS
- ECOC
- TADMUS
- Info Management
- Wireless Info Xfer
- GCCS-M
- HF- HDR-Compression
- JWID

